

Scout Report sent out

Noted in the NID File

Location map pinned

Approval or Disapproval Letter

Data Completed, P. & A. or
operations suspended

Pin changed on location map

Affidavit and Record of A & P

Water Shut-Off Test

Gas-Oil Ratio Test

Well Log Filed

-
-
-
-
-
-
-
-

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

I W for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed 12-17-58

OW _____ WW _____ TA _____

OW _____ OS _____ PA

Location Inspected _____

Bond released _____

State of Fee Land _____

LOGS FILED

Driller's Log 3-2-59

Electric Logs (No.) 13

E _____ I _____ E-I GR _____ GR-N Micro

Lat _____ Mi-L _____ Sonic _____ Others _____

(SUBMIT IN TRIPLICATE)

Indian Agency **Navajo**

| | | |
|---|--|--|
| | | |
| | | |
| | | |
| X | | |

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____
Lease No. **14-20-603-404**

SUNDRY NOTICES AND REPORTS ON WELLS

| | | | |
|---|-------------------------------------|--|--|
| NOTICE OF INTENTION TO DRILL | <input checked="" type="checkbox"/> | SUBSEQUENT REPORT OF WATER SHUT-OFF | |
| NOTICE OF INTENTION TO CHANGE PLANS | | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING | |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF | | SUBSEQUENT REPORT OF ALTERING CASING | |
| NOTICE OF INTENTION TO REDRILL OR REPAIR WELL | | SUBSEQUENT REPORT OF REDRILLING OR REPAIR | |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE | | SUBSEQUENT REPORT OF ABANDONMENT | |
| NOTICE OF INTENTION TO PULL OR ALTER CASING | | SUPPLEMENTARY WELL HISTORY | |
| NOTICE OF INTENTION TO ABANDON WELL | | | |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 13, 1958

Desert Creek
Well No. **1** is located **660** ft. from **SW** line and **660** ft. from **W** line of sec. **18**
SW SW/4 Section 18 **42-S** **23-E** **Salt Lake**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat **San Juan** **Utah**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **5337** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

It is intended to drill a well through the Paradox Formation using rotary tools and mud circulation. Intermediate casing will be set in Chinley Formation if water flow is encountered. Production casing will be set through Paradox Formation. All possible producing zones will be acidized. Estimated total depth is 6700'.

Casing Program:

- 13-3/8" Surface Casing at 200' w/200 sks. circulated to surface.
- 9-5/8" Intermediate Casing at 1860' (if necessary) w/500 sks.
- 5-1/2" Production Casing at 6700' w/500 sks.

The SW/4 of Section 18 is dedicated to this well.

SW/4 Section 18 Navajo Tribal Contract No. 14-20-603-404.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **El Paso Natural Gas Products Company**

Address **Post Office Box 1565**

Farmington, New Mexico

ORIGINAL SIGNED BY: JOSEPH E. KREGER

Title **Petroleum Engineer**

COMPANY El Paso Natural Gas Products Company

Navajo

Well Name & No. Desert Creek No. 1

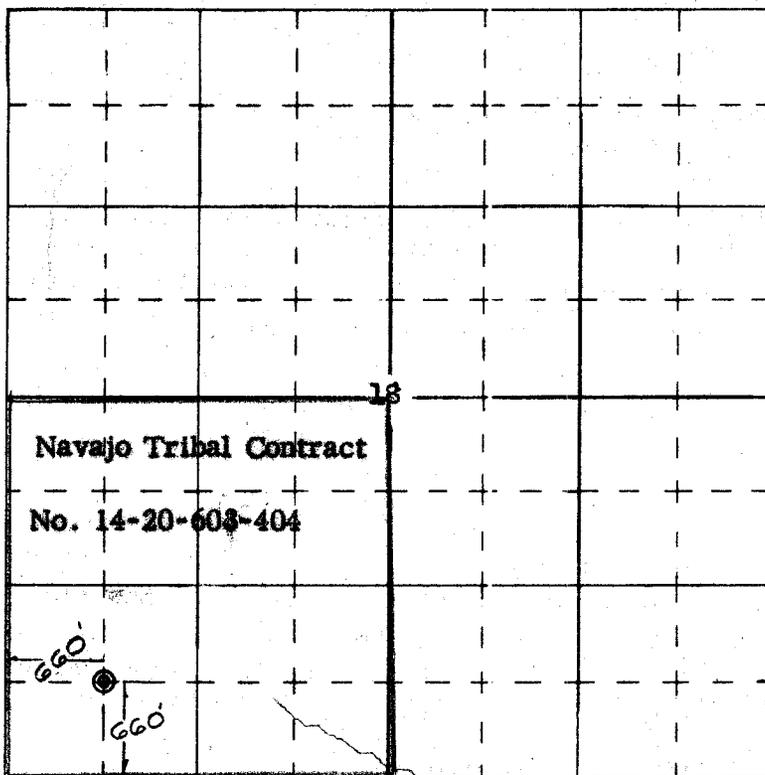
Lease No. 14-20-603-404

Location 660 feet from the South line and 660 feet from the West line,

Being in SW¹SW⁴

Sec. 18, T42^S, R 23^E, ~~N. 10. 30. W.~~ Salt Lake Meridian, San Juan County, Utah.

Ground Elevation 5327



Scale -- 4 inches equals 1 mile

Surveyed October 8, 1958

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



Ernest V. Echohawk

Ernest V. Echohawk
Registered Land Surveyor
N. M. Reg. #1545

Four States Oil Field Surveys
Farmington, New Mexico

October 16, 1958

El Paso Natural Gas Products
P. O. Box 1565
Farmington, New Mexico

Attention: Joseph E. Kreger, Petroleum Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Desert Creek 1, which is to be located 660 feet from the south line and 660 feet from the west line of Section 18, Township 42 South, Range 23 East, SLBM, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT
SECRETARY

CBF:co

cc: Phil McGrath
USGS, Farmington,
New Mexico

(SUBMIT IN TRIPLICATE)

Indian Agency **Navajo Tribal**

| | | |
|---|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| X | | |

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____
Lease No. **14-20-603-404**
Desert Creek

SUNDRY NOTICES AND REPORTS ON WELLS

| | | |
|--|---|----------|
| NOTICE OF INTENTION TO DRILL..... | SUBSEQUENT REPORT OF WATER SHUT-OFF..... | X |
| NOTICE OF INTENTION TO CHANGE PLANS..... | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING..... | |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF..... | SUBSEQUENT REPORT OF ALTERING CASING..... | |
| NOTICE OF INTENTION TO REDRILL OR REPAIR WELL..... | SUBSEQUENT REPORT OF REDRILLING OR REPAIR..... | |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE..... | SUBSEQUENT REPORT OF ABANDONMENT..... | |
| NOTICE OF INTENTION TO PULL OR ALTER CASING..... | SUPPLEMENTARY WELL HISTORY..... | |
| NOTICE OF INTENTION TO ABANDON WELL..... | | |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

FILED IN LIEU OF OGCC - Form 1.

October 22, 19 **58**

Well No. **1** is located **660** ft. from **SE** line and **660** ft. from **W** line of sec. **18**

SW SW/4 Section 18
(¼ Sec. and Sec. No.)

42-S
(Twp.)

23-E
(Range)

NMPM
(Meridian)

Wildcat
(Field)

San Juan
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is **5337** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spud Date: 10-19-58. 10-20-58 Total Depth 210'.

Ran 7 joints 13-3/8", 48.00#, H-40 Csg. (196') set at 208' with 200 sacks regular cement, 3% Calcium Chloride circulated to surface.

Held 500#/30 Minutes.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **El Paso Natural Gas Products Company**

Address **Post Office Box 1565**
Farmington, New Mexico

By **Joseph E. Keger**
Title **Petroleum Engineer**

W

| | | | |
|---------|-----|-----|------------|
| 13-3/8" | 207 | 200 | Circulated |
|---------|-----|-----|------------|

FOLD MARK

PLUGS AND ADAPTERS

Heaving plug—Material N Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|------|------------|----------------|----------|------|------------|-------------------|
|------|------------|----------------|----------|------|------------|-------------------|

This well was plugged and abandoned December 17, 1958. Plugs set 0-15' with 15 sacks cement; 175-225' with 40 sacks cement; 720-820' with 40 sacks cement; 1640-1790' with 60 sacks cement; 4565-4765' with 80 sacks cement; set surface marker 4' above ground level.

TOOLS USED

Rotary tools were used from _____ feet to 5636 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing R + A 12-17-58, 19____
 The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
 _____, Driller _____, Driller

FORMATION RECORD

| FROM— | TO— | TOTAL FEET | FORMATION |
|-------|------|------------|--|
| 0 | 325 | 325 | Morrison Form. Inbd. gn. brn. & red waxy sh. & fn. to cse. gr. sd. |
| 325 | 518 | 193 | Bluff Member Form. Lt. orange to bl., FG, loosely consolidated, rdd. to sub rdd. gr., PQG ss. |
| 518 | 583 | 65 | Summerville Form. Reddish-brn., silt. sdy. to sh. siltstone & white fn. to med. gr. round poorly consolidated ss. |
| 583 | 672 | 89 | Entrada Form. White or orange, fn. to cse. gr. ss. red orange soft siltstn., red to brn. soft wilty sh. |
| 672 | 765 | 93 | Carmel Form. Red to brn. soft well consolidated sh. & orange unconsolidated, v/fn. to cse. gr. clastic, sub-rdd. ss. |
| 765 | 1050 | 285 | Navejo Form. Red, buff, fn. gr. crossbedded ss. |
| 1050 | 1100 | 50 | Kayenta Form. Reddish purple ss, w/inbd. sas. & ls. |
| 1100 | 1722 | 622 | Wingate Form. Orange, v/fn. to med. gr., unconsolidated rd. to sub-rdd. ss & lk. orange, soft, sl/sdy. siltstone. |
| 1722 | 2480 | 758 | Chinle Form. Red to Red-brn. sft. sh. w/occ. thin beds of brn. & gy. ls.; cong. base. |
| 2480 | 2532 | 52 | Shinarump Form. Gy. & purple MS conglomerate ss. inbd. w/soft brn. & gn. shale. |
| 2532 | 2605 | 73 | Moen Kopl Form. Gy., brn., & purple soft sh. inbd. w/gy. gn. FG ss. |
| FROM— | TO— | TOTAL FEET | FORMATION |

N

FORMATION RECORD—Continued

| FROM— | TO— | TOTAL FEET | FORMATION |
|-------|------|------------|--|
| 2605 | 2910 | 305 | De Chelly Form. White & orange fn. to cse. gr. FQ ss. |
| 2910 | 3620 | 710 | Cutler Redbeds Form. Red brn. sft. slty. sh. |
| 3620 | 4664 | 1044 | Cutler Evaporites Form. Sh. & siltstn. soft anhydritic shale. Sh. & siltstone. |
| 4664 | 5618 | 954 | Monaker Trail Form. Gy. ls., Cherty ls zones, w/inhd. red gy. shales & sandstones. |
| 5618 | 5955 | 337 | Upper Paradox Form. Lt. gy. to blk. ds. to por., hd., micro to med. xlyn., ls. w/traces of blk. sh. laminations. |
| 5955 | 6155 | 200 | Middle Paradox Form. Predominantly gypsum or to anhydrite w/thin to med. beds qtz. ds. ls. w/dk. gy./blk. shale interbeds. |
| 6155 | 6471 | 316 | Lower Paradox Form. Porous to ds. gy. to white ls. w/inhd. blk. shale. |
| 6471 | 6624 | 153 | Pinkerton Trail Form. Gy. ls., gy.-grn. shales, some siltstones & sandstones. |
| 6624 | 6636 | 12 | Molas Form. Red, grn., gy. sh. w/inhd. cream ls., red siltstones & sandstones. |

FROM— TO— TOTAL FEET FORMATION

FORMATION RECORD

TOPS ARE FROM ELECTRIC LOGS AND RADIOACTIVITY LOGS.

EMPLOYEES

DATES

LOGS USED

SHOOTING RECORD

PLUGS AND ADVISERS

B.O.D. MARK

PLEASE ON PERMIT TO PROSPECT
SERIAL NUMBER
U.S. LAND OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Empty grid table with 10 columns and 10 rows.

Well No. 11-21-58 Sec. 2785-0-118 R. 4. Open 27 1/2' WBVT. Died 1. 3' Complete in drill pipe.
Well No. 11-22-58 Open 27 1/2' WBVT. Died 53'.
Well No. 11-28-58 Open 48' WBVT. Died 5'.
Well No. 12-2-58 Open 49' WBVT. Died 10'.
Well No. 12-16-58 Open 120' SBV through.
Well No. 12-16-58 Open 120' SBV through.
Well No. 12-16-58 Open 120' SBV through.

Location of line and well. The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

11-18-58 No. 1 from 0' to 24' 1/2' Is.; no fluor.
11-23-58 No. 1 from 0' to 11' 1/2' Is.
11-23-58 No. 3 from 0' to 2-1/2' Is.
11-23-58 No. 4 from 0' to 36' Is.; fluor.
11-23-58 No. 5 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 6 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 7 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 8 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 9 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 10 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 11 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 12 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 13 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 14 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 15 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 16 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 17 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 18 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 19 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 20 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 21 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 22 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 23 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 24 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 25 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 26 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 27 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 28 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 29 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 30 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 31 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 32 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 33 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 34 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 35 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 36 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 37 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 38 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 39 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 40 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 41 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 42 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 43 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 44 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 45 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 46 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 47 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 48 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 49 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 50 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 51 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 52 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 53 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 54 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 55 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 56 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 57 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 58 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 59 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 60 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 61 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 62 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 63 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 64 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 65 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 66 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 67 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 68 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 69 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 70 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 71 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 72 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 73 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 74 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 75 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 76 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 77 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 78 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 79 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 80 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 81 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 82 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 83 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 84 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 85 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 86 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 87 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 88 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 89 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 90 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 91 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 92 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 93 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 94 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 95 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 96 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 97 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 98 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 99 from 0' to 10' 1/2' Is.; fluor.
11-23-58 No. 100 from 0' to 10' 1/2' Is.; fluor.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of re-drilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, position, and number of shots. If pings or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Table with columns: Date, Casing, Weight per foot, Through hole, Make, American, Section, Recovery, Amount of sand, etc.

WATER

April 1, 1959

El Paso Natural Gas Products Company
Post Office Box 1565
Farmington, New Mexico

Attention: Joseph E. Kreger
Petroleum Engineer

Gentlemen:

Re: Well No. Desert Creek 1
Section 18, Township 42 South
Range 23 East, San Juan Co.

It has come to the attention of this office that this well was plugged and abandoned December 18, 1958. According to the rules and regulations of this Commission, a monthly well status report should be filed with us. The last such report was received by this office on October 22, 1958.

Also, it is required that all logs, electric, driller's, etc., be filed in this office within three months after completion of a well. If our information is correct and the well was plugged and abandoned December 18, 1958, we should have received your logs not later than March 18, 1959.

We would appreciate your prompt attention to this matter.

Yours very truly,
OIL & GAS CONSERVATION COMMISSION

C. Peterson
Statistician

op

EL PASO NATURAL GAS PRODUCTS COMPANY
Desert Creek #1
18-428-23E 10351

Core #6, 5851 1/2-5868', recovered 10':

- 1 1/2' limestone, dark grey-black, micro-crystalline, dense, shaly with shale stringers, few micro-fractures;
- 4' limestone, as above, slight odor, dead oil fluorescence on micro-fractures;
- 1' limestone, as above, no odor or fluorescence;
- 1' limestone, as above, with calcite filled micro-fractures and seams;
- 1' limestone, dark grey, fine crystalline, hard, few shale stringers, trace of pinpoint porosity, odor, trace of bleeding oil;
- 1' limestone, as above, fine to medium crystalline, slight odor, trace of fluorescence, no bleeding;
- 1 1/2' limestone, as above, trace of pinpoint porosity, fluorescence, trace of bleeding oil, few ~~XXXXXXXXXX~~ fossils;
- 6 1/2' no recovery.

Core #7, 5868-79', recovered 10 1/2':

- 2' limestone, dark grey-black, micro to fine crystalline, dense, shaly, fossiliferous, slight odor, oil fluorescence on micro-fractures;
- 4' limestone, dark grey, fine crystalline, dense, shaly with shale stringers, grades to calcareous shale 73-74';
- 2' shale, black with calcareous inclusions, with shaly limestone laminae;
- 2' limestone, grey, medium crystalline, hard, slight inter-granular porosity, abundant calcite crystals;
- 1/2' limestone, grey, fine crystalline, dolomitic, trace of porosity;
- 1/2' no recovery.

Core #8, 6155-6205', recovered 50':

- 5' dolomite, dark grey, fine crystalline, hard, dense, few small anhydrite inclusions and very thin shale streaks;
- 3' dolomite, as above, shaly;
- 1' dolomite, as above, very shaly, grading to dolomitic shale;
- 4' dolomite, as above, few anhydrite inclusions and shale partings;
- 1' dolomite, as above, shaly;
- 5' dolomite, as above, few anhydrite inclusions and shale partings;
- 1' dolomite, light grey to tan, crypto-crystalline, dense, slight mineral fluorescence;
- 1' dolomite, as above, abundant anhydrite inclusions, slight pinpoint porosity, bleeding salt water, micro-fractures, slight mineral fluorescence;
- 4' dolomite, tan, fine-medium crystalline, anhydrite inclusions, slight pinpoint porosity, bleeding salt water, micro-fractures, slight mineral fluorescence;
- 3' dolomite, tan-light grey, fine-medium crystalline, hard, dense;
- 3' dolomite, as above, slight pinpoint porosity, bleeding salt water, slight mineral fluorescence;
- 4' dolomite, brown, fine-coarse crystalline, hard, dense;
- 3' dolomite, tan-grey, fine crystalline, sucrosic, slight porosity and bleeding salt water in top 2';
- 1' shale, black, hard, dolomitic, with thin dolomite streaks;
- 1' dolomite, grey, fine crystalline, hard, dense;
- 3' dolomite, brown, grey, fine crystalline, sucrosic, slight porosity, bleeding salt water, anhydrite inclusions in top 1';
- 7' dolomite, light grey, fine crystalline, sucrosic, anhydrite inclusions in top 3', slight pinpoint porosity and bleeding salt water in top 2' and bottom 2'.

Cor: #9, 6205-6217 1/2', recovered 12 1/2':

- 3' dolomite, grey to tan, fine crystalline, vuggy porosity, anhydrite inclusions, micro-fractures, stylolites, bleeding; salt water;
- 2' dolomite, as above, dense, tight, shale streaks;
- 1' dolomite, grey to tan, fine crystalline, small vuggy porosity, micro-fractures, slightly bleeding salt water;
- 1' dolomite, as above, hard, tight, fossiliferous, grading to limestone;
- 2' limestone, grey to brown, fine crystalline, hard, tight, dolomitic, fossiliferous, grading to dolomitic at bottom;
- 3 1/2' dolomite, grey, micro-crystalline, hard, dense, tight, with shale streaks, grading to shale at bottom.

Cor: #10, 6217 1/2-6245', recovered 23 1/2':

- 5 1/2' dolomite, hard, dense;
- 1' dolomite, porous, bleeding salt water;
- 1' dolomite, hard, dense;
- 4 1/2' dolomite, porous, bleeding salt water;
- 1' dolomite, hard, dense;
- 4 1/2' dolomite, porous, bleeding salt water;
- 3' dolomite, hard, dense;
- 3' dolomite, porous, bleeding salt water;
- 4' no recovery.

Cor: #11, 6245-6266', recovered 21':

- 9' dolomite, grey to tan, fine to medium crystalline, vuggy porosity, bleeding salt water, anhydrite inclusions, random micro-fractures, few fossils;
- 3' dolomite, as above, trace of vuggy porosity, slightly bleeding salt water;
- 2' dolomite, grey to tan, fine to medium crystalline, hard and tight, anhydrite inclusions, fossiliferous;
- 2' dolomite, as above, grey chert, few fossils;
- 1' dolomite, as above, no chert;
- 2' dolomite, grey, fine crystalline, hard and tight, abundant fossils with fossiliferous trash;
- 2' limestone, grey to tan, fine to coarse crystalline, ~~XXXX~~ tight, very fossiliferous becoming dolomitic.

Cor: #12, 6266-80', recovered 13.5':

- 11' dolomite, grey to brown, micro-medium crystalline, hard, dense, tight, small chert (6268-70'), anhydrite inclusions, stylolites, micro-fractures;
- 1' shale, dark grey, calcitic, dolomitic at bottom;
- 1' dolomite, as above;
- 1/2' dolomite, brown, fine crystalline, small vuggy porosity, bleeding salt water;
- 1/2' no recovery.

Cor: #13, 6339-6358', recovered 19':

- 1' shale, dark grey to grey-green, slightly calcareous, slightly silty;
- 3' limestone, dark grey, micro-fine crystalline, hard, tight, silty, shaly with shale streaks;
- 1' shale, as above, with calcite laminae;
- 6' limestone, as above, with shale stringers and interbeds;
- 4' limestone, dark grey to grey-green, micro-fine crystalline, slightly dolomitic, slightly shaly, micro-fractures, trace of porosity (vuggy, pinpoint, and intra-crystalline);
- 4' dolomite, brown, tan medium crystalline, hard, tight, few shale interbeds, micro-fractures, anhydrite inclusions, anhydrite beds in bottom 1'.

Core #14, 6358-6370', recovered 8':

- 4' dolomite, brown to grey, fine-medium crystalline, hard, tight, shaly, streaks, anhydrite inclusions, micro-fractures;
- 3' dolomite, as above, medium down to fine-crystalline;
- 1' limestone, dark grey, micro-fine crystalline, hard, tight, slightly shaly, micro-fractures;
- 4' no recovery.

Core #15, 6370-99', recovered 29':

- 2' shale, dark grey-black, slightly calcareous;
- 3' dolomite, light grey, medium crystalline, hard and tight, few specks of gluconite;
- 4' dolomite, grey to tan, fine to medium crystalline, hard and tight, slightly shaly, few micro-fractures;
- 1' dolomite, as above, anhydrite inclusions, bleeding salt water from micro-fractures, trace of vuggy porosity;
- 1 1/2' dolomite and interbedded black shale;
- 1 1/2' dolomite, brown to grey, fine to medium crystalline, trace of vuggy porosity, bleeding salt water from micro-fractures;
- 3' dolomite, as above, fair vuggy porosity, bleeding salt water;
- 1' dolomite, as above, no bleeding;
- 5' dolomite, grey, fine to medium crystalline, hard and tight, abundant anhydrite inclusions, micro-fractures;
- 3' dolomite, light grey, medium crystalline, hard and tight, anhydrite inclusions;
- 1' dolomite, grey to brown, fine to medium crystalline, hard and tight, few crinoids;
- 3' limestone, dark grey, fine crystalline, hard and tight, dolomitic, fossiliferous.

Core #16, 6399-6419', recovered 20':

- 4' limestone, medium to crypto-crystalline, hard and tight, fossiliferous;
- 1' shale, dark grey, calcareous with limestone streaks;
- 3' limestone, grey, fine crystalline, hard and tight, with few shale streaks;
- 1' limestone, grey to tan, crypto crystalline, hard and tight, fossiliferous;
- 2' shale, dark grey to black, calcareous with streaks of fossils trash limestone;
- 9' limestone, grey to brown, fine to medium crystalline, crypto-crystalline, at bottom 2', with micro-fractures and abundant chert.